

ON-CHIP LOGIC ANALYZER

Abstract of the Disclosure

An on-chip logic analysis (OCLA) system captures data processed by a signal processing logic core embedded in a single-chip-device (SOC) without interrupting operations of the signal processing logic core. The OCLA system includes a data capturing unit embedded in the SOC device to monitor the operations of the signal processing unit and determines whether the operations satisfy predetermined trigger conditions. Once the trigger condition is satisfied, the data capturing unit captures internal data from/to the signal processing unit and transfers to an external host system. The host system controls the operations of the data capturing unit. The host system provides the captured data to a user interface for testing and debugging the operations of the SOC signal processing device.

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